

Material Grade: **C55**

Associated Standard: **BS EN 10083**

1. STEELMAKING

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>S*</u>	<u>P*</u>	<u>Cr</u>	<u>Ni</u>	<u>Mo</u>	<u>Cr+Mo+Ni</u>
Min	0.37		0.50						
Max	0.44	0.40	0.80	0.045	0.045	0.40	0.40	0.10	0.63

(* differs with grade variation C55R/C550E)

2. TYPICAL MECHANICAL PROPERTIES

Test type			Tensile and hardness test (at room temperature)					
			Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness
Variation	Sample dia	Unit	N/mm ²	N/mm ²	N/mm ²	%	%	HB
C55 + N	> 100 ≤ 250mm	Min	300		620	12		
		Max						
C55 + QT	> 40 ≤ 100mm	Min	420		700	15	40	
		Max			850			